

ABSTRACT OF THE DISCLOSURE

A condensing heat exchanger is formed of norbornene polymer, preferably a norbornene homopolymer or copolymer. A plurality of norbornene polymer pellets are melted and extruded to form a first tube. The tube is then blow molded into a mold. A second extruded tube is also blow molded into a U-shape, and the first tube is positioned in the U-shaped opening to form a cell. The ends of the cells are attached to a holding plate by thermal adhesion or heating and flaring. Norbornene polymer possesses exceptional thermal resistance to the high temperature flue vent gases and has physical and chemical resistance to the acidic condensate formed by the condensing heat exchanger.

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